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recognize the fact that no good work can be done in ceramics which is not based on the three sciences, chemistry, physics and geology. With these sciences and technical instruction in clay working as its backbone, the course in ceramics also offers instruction in art, English and modern languages, mathematics, physical training and military tactics.

In the course in ceramic engineering, instruction in art and in certain technical subjects is replaced by elementary courses in electrical, mechanical and civil engineering. The course is intended principally for those who wish to install plants rather than operate them. Substitutions are also suggested which will adapt the course to the needs of the manufacturer of limes and cements.

Students in all except the strictly technical subjects work in the laboratories of the scientific and engineering departments. The special ceramic laboratories are equipped with kilns, furnaces, presses, mills, jiggers, whirlers, and such other machines, all of the latest and most approved types, as are necessary to enable the student to do thoroughly practical work.

The school counts among its friends the managers of nearly all the large clay-working establishments in Illinois, and there seems to be no reason why it shall not speedily become very helpful to the clay interests of the state and nation and at the same time open to young men a new and profitable field for effort.

PHYSIOLOGY AND EXPERIMENTAL MEDICINE AT THE NEW ORLEANS MEETING.

THE sessions of Section K of the American Association for the Advancement of Science, which will be held on the morning and afternoon of January 1, promise to be of unusual interest. The morning session will be opened by an address by the vice-president, Dr. William T. Sedgwick, on 'The Experimental Method in Sanitary Science and Sanitary Practise.' The remainder of the morning session and all of the afternoon will be devoted to a symposium on yellow fever and other insect-borne diseases. Yellow fever in its various phases will be discussed by Drs. J.

H. White, Quitman Kohnke, James Carroll and H. A. Veazie. It is expected that Dr. Edmund Souchon, Surgeon-General Wyman and Col. W. C. Gorgas and other specialists, will also take part in the discussion. Dr. William S. Thayer will read a paper on 'The Problem of Prophylaxis Against Malaria in the United States,' Dr. Henry B. Ward will consider filariasis and trypanosome diseases, Dr. Charles W. Stiles will present a résumé of facts bearing on the principles involved in the transmission of diseases by insects, and Dr. Gary N. Calkins will discuss the protozoan life cycle. Dr. L. O. Howard will talk on mosquitoes that carry disease and Mr. Henry Clay Weeks, secretary of the American Mosquito Extermination Society, will present the practical side of mosquito extermination.

WILLIAM J. GIES,
Secretary.

SCIENTIFIC NOTES AND NEWS.

DR. HENRY S. PRITCHETT has resigned the presidency of the Massachusetts Institute of Technology to accept the presidency of the Carnegie Foundation for pensioning college and university professors, the offices of which will be in New York City.

A DEPARTMENT of botanical research to include the Desert Laboratory and other botanical projects, was established by the action of the trustees of the Carnegie Institution at a recent meeting. Dr. D. T. MacDougal has resigned as assistant director of the New York Botanical Garden to accept the post of director of the newly organized department.

MAJOR D. PRAIN, hitherto director of the Botanical Garden at Calcutta, has been appointed to the directorship of Kew Gardens, vacant by the retirement of Sir William Thiselton-Dyer.

MR. F. W. DYSON, F.R.S., chief assistant at Greenwich Observatory, has been appointed astronomer royal for Scotland, and professor of practical astronomy in Edinburgh University, in the room of the late Professor Cope-land.

PROFESSOR WILLIAM STIRLING, M.D., Brackenbury professor of physiology and histology

in the Victoria University, Manchester, has been elected Fullerian professor of physiology to the Royal Institution, London.

DR. WILLIAM OSLER, regius professor of medicine at Oxford, is a passenger on the *Caronia*, which is due in New York at the end of this week.

The Botanical Gazette states that Professors Macbride and Shimek, of the University of Iowa, spent part of last summer in the southwestern deserts, especially in the Salton basin. The university herbarium now contains a fairly complete representation of the flora of New Mexico and Arizona.

DR. W. WIRTINGER, professor of mathematics at Vienna, has been elected a member of the Vienna Academy of Sciences.

THE Royal Society of Arts has awarded a silver medal to the Hon. Robert P. Porter, former head of the U. S. Census Office, for his paper read before the society, on 'London Electric Railways.'

The British Medical Journal states that Professor Czerny has resigned the chair of surgery in the University of Heidelberg, which he has held since 1877, in order to devote himself entirely to the duties of director of the Institute of Cancer Research. He will be succeeded in the chair of surgery by Professor Garré, who accepted a call to Breslau after the death of Professor von Mikulicz.

DR. A. B. MEYER has been dismissed from the directorship of the Zoological and Ethnographical Museum at Dresden for alleged irregularities in the conduct of the museum.

ON December 29 Dr. Thomas Darlington, health commissioner of New York, will deliver a public lecture at the Academy of Medicine on the results of the work of the two commissions appointed last spring to study pneumonia and cerebrospinal meningitis.

THE committee appointed to carry the proposal of a memorial to Rudolf Virchow into effect has now a sum of \$20,000 at its disposal. Of this amount \$9,000 has been contributed by subscribers and \$11,000 by the city of Berlin. Three prizes, of the value respect-

ively of \$750, \$500 and \$250, are offered for the best design of a memorial. Drawings must be sent in before April, 1906.

DR. WALTER WISLICENUS, associate professor of astronomy at Strassburg, died on October 3, at the age of forty-six years.

THE death is announced of Professor von Leuthold, surgeon-general of the German army.

DR. ERNST ZIEGLER, professor of pathology in the University of Freiburg, died on November 30, in his fifty-seventh year.

IN connection with the approaching meeting of the American Association the New England Passenger Association offers a rate of a fare and a third to Washington or other trunk line southern or western termini, added to one fare plus twenty-five cents for the round trip (this does not include the Eastern Steamship Company).

THE fourth annual meeting of the American Paleontological Society (Vertebrates) will be held at the American Museum of Natural History, New York, on Wednesday and Thursday, December 27 and 28. This is the second regular meeting, and will be presided over by Professor William B. Scott of Princeton University, Dr. Marcus S. Farr, of the same institution, acting as secretary. Professor Scott's presidential address will be upon the geology and paleontology of South Africa, so far as observed during his recent visit in connection with the British Association for the Advancement of Science.

A MEETING of those members of the Division of Hydrology of the United States Geological Survey who are engaged in artesian water and related geologic investigations was held in Washington on December 9, for the purpose of organizing a society for the discussion of problems relating to underground waters and methods of increasing the efficiency and economic value of investigations. Among those attending the meeting were F. H. Newell, chief engineer of the Geological Survey, and officials and members of the division of hydrology. The formation of the new society was decided upon, but the details of organization were left to a future meeting.

THE anniversary meeting of the Royal Society was held on November 30, with Sir William Huggins in the chair. After the report of the council had been presented and the president had delivered an address, Lord Rayleigh was elected president of the society, and presided at the dinner in the evening. In answer to the toast of 'The Medallists,' Professor Mendeliëff, Professor Righi, Professor Poynting and Professor Sherrington replied.

THE International Congress of Prehistoric Anthropology and Archeology will hold its thirteenth meeting at Monaco, under the patronage of Prince Albert the First, from April 16 to 21, 1906. Detailed information as to the congress may be obtained on application to the general secretary, Dr. Verneau, 61, Rue de Buffon, Paris.

THE new building of the Rockefeller Institute at the foot of East 56th St., New York City, will be ready for occupancy in January.

Nature, quoting from the *Chemiker-Zeitung*, states that the German state grant for the support of scientific, technical and similar undertakings is to be increased by 115,000 Marks. The sum of 179,500 Marks is to be spent upon increasing the accommodation for the permanent exhibition devoted to the interests of the working classes; 120,000 Marks to be a first instalment for investigation of sleeping sickness; 30,000 Marks to be devoted to the development of the Starkstrom laboratory of the Reichsanstalt; 43,850 Marks to be contributed to the kite station on Lake Constance for experimental investigations of the higher air strata.

WE learn from *The British Medical Journal* that Professor Debove recently presented to the Académie de Médecine, Paris, the report for 1904 of the Scientific Information Bureau. During the year 8,000 persons applied for information as to courses of instruction, laboratories, hospitals, libraries and archives. Fifty-five per cent. of the applicants were foreigners, the countries represented being Great Britain, the United States, Russia, Scandinavia, Italy, Spain, South America, Germany, Japan and China. Sometimes there were from seventy to eighty applicants in one day. The staff of the bureau consists

of four persons, and answers to questions can be given in five languages. The members of the bureau are paid by the Municipal Council and the Council of the University. It may be mentioned that the information supplied is by no means confined to matters relating to medicine; replies are given to inquiries as to the French language and literature, the fine arts, industrial physics and chemistry, etc.

UNIVERSITY AND EDUCATIONAL NEWS.

MRS. HELEN C. COBURN has by her will made public bequests amounting to \$450,000. \$10,000 are given to Radcliffe College, \$40,000 to Phillips-Andover Academy, \$75,000 to the Massachusetts General Hospital, and considerable sums to institutions for the education of negroes.

MR. ANDREW CARNEGIE has agreed to give \$100,000 to equip the electrical engineering laboratory of Union College, provided the college raises \$100,000 to endow it.

YALE UNIVERSITY has received from two anonymous donors a gift of \$75,000, which, subject to certain annuities, will be used to found a lectureship on 'The interrelation of religion, science and philosophy.'

OBERLIN COLLEGE receives \$10,000 by the will of the late Miss Annie Walworth, Cleveland.

MR. JOHN WILLIAM TAYLOR, of Kensington, has bequeathed \$100,000 to Owen's College, Manchester, now a part of Victoria University.

PROFESSOR CRUM BROWN has given to the University of Edinburgh a collection of over 2,000 specimens of chemical substances.

THE Japanese minister of education having caused the resignation of one of the professors of the University of Tokyo, owing to his attitude on public questions, the professors of the university have signed a protest, which has led to the resignation of the minister of education and the assumption of his portfolio by the premier. It is said that the position of the cabinet has been greatly weakened by this action of the minister of education.

PROFESSOR C. H. JUDD, of Yale University, has been appointed director of the summer school.